



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---------------|----------------------|---------------------|------------------|
| 10/530,049 | 09/21/2005 | Rainer Hainberger | 1826-1063 | 5515 |
| 21171 . 75 | 90 11/29/2006 | | EXAMINER | |
| STAAS & HALSEY LLP | | | HUGHES, DEANDRA M | |
| SUITE 700 1201 NEW YORK AVENUE, N.W. | | | ART UNIT | PAPER NUMBER |
| WASHINGTON | • | • | 3663 | |

DATE MAILED: 11/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | | |
|--|--|--|--------------|--|--|--|
| Office Action Commence | 10/530,049 | HAINBERGER ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Deandra M. Hughes | 3663 | | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence ad | ldress | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | I. lely filed the mailing date of this cool (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 21 Se | entember 2005 | | | | | |
| _ | action is non-final. | | | | | |
| <i>,</i> | | secution as to the | merits is | | | |
| | 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposition of Claims | x parto quayro, 1000 O.D. 11, 40 | 0.0.210. | | | | |
| <u>_</u> | | | | | | |
| | 4) Claim(s) 1-14 is/are pending in the application. | | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6) Claim(s) is/are rejected. | | | | | | |
| | 7) Claim(s) is/are objected to. | | | | | |
| 8)⊠ Claim(s) <u>1-14</u> are subject to restriction and/or e | election requirement. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examine | r. | | | | | |
| 10) The drawing(s) filed on is/are: a) □ acce | epted or b) \square objected to by the E | Examiner. | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| Replacement drawing sheet(s) including the correcti | on is required if the drawing(s) is obj | ected to. See 37 Cl | FR 1.121(d). | | | |
| 11) The oath or declaration is objected to by the Ex | aminer. Note the attached Office | Action or form P7 | ΓΟ-152. | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: | | -(d) or (f). | | | | |
| | 1. Certified copies of the priority documents have been received. | | | | | |
| 2. Certified copies of the priority documents | | | 04 | | | |
| 3. Copies of the certified copies of the prior | • | ed in this National | Stage | | | |
| application from the International Bureau | · · · · · · · · · · · · · · · · · · · | ٨ | | | | |
| * See the attached detailed Office action for a list of | or the certified copies not receive | a. | | | | |
| Amarkaranya | | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) | A) [] [] [] [] [] [] [] [] [] [| (DTO 442) | | | | |
| Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4) Interview Summary Paper No(s)/Mail Da | | | | | |
| 3) Information Disclosure Statement(s) (PTO/SB/08) | 5) D Notice of Informal P | | | | | |
| Paper No(s)/Mail Date 6) L Other: | | | | | | |

Application/Control Number: 10/530,049 Page 2

Art Unit: 3663

Election/Restrictions

1. The Examiner erroneously indicated that the shortened statutory period for reply was set to expire three (3) months from the mailing date of the previous Election/Restriction requirement dated 11/2/06 when in fact, the shortened statutory period for reply was set to expire one (1) month from the mailing date. This was a mistake and led to confusion. Consequently, the shortened statutory period for reply is reset herewith. Any inconvenience to the Applicant is regretted.

2. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

(SPECIES 1) modulator unit modulates the pump light of the 1st and 2nd order pumps by using relative timing of the 1st and 2nd order pumps to optimize lateral signal distribution power along the optical fiber (pg. 7-8 of specification, last 2 lines and 1st 2 lines, respectively);

(SPECIES 2) modulator unit modulates the pump light of the 1st and 2nd order pumps by using relative timing of the 1st and 2nd order pumps to allow flattening lateral signal distribution power along the optical fiber (pg. 8 of specification, lines 7-10);

(SPECIES 3) modulator unit modulates the pump light of the 1st and 2nd order pumps by controlling a length of interaction area in the optical fiber (pg. 7-8 of specification, lines 15-18).

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims

į

Application/Control Number: 10/530,049 Page 3

Art Unit: 3663

subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

3. The claims are deemed to correspond to the species listed above in the following manner:

(SPECIES 1) Claims 1 and 12;

(SPECIES 2) Claims 2-9 and 13;

(SPECIES 3) Claims 10-11 and 14.

No claims are generic.

4. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons.

The special technical features of modulating the pumps by: (1) optimizing the lateral signal distribution power along the optical fiber; (2) allow flattening lateral signal distribution power along the optical fiber; and (3) by controlling a length of interaction area in the optical fiber are mutually exclusive.

5. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

Application/Control Number: 10/530,049

Art Unit: 3663

requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deandra M. Hughes whose telephone number is 571-272-6982. The examiner can normally be reached on M-F, 8:30am-5:00pm.

Art Unit: 3663

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on 571-272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Deandra Marughe
Primary Examiner
Art Unit 3663